

WHAT IS CLAIMED IS:

1. An image processing device, comprising:

an original image data input means for inputting original image data obtained by shooting a subject; and

a control means for correcting said original image data inputted by said original image data input means, using shooting color chart data which is image data obtained by shooting a color chart using a light source of a same type as a type of a light source used at shooting of said subject, and predetermined color chart data which is image data obtained by shooting said color chart using a predetermined type of light source, such that said original image data is corrected to be predetermined image data obtained by shooting said subject using said predetermined type of light source.

2. The image processing device according to claim 1, further comprising:

a color chart data storing means for storing, corresponding to each of one or more types of light sources, light source color chart data which is image data obtained by shooting said color chart using the light source;

said control means searching said color chart data storing means based on light source designating data that designates said predetermined type of light source to be provided, to read out said light source color chart data corresponding to said predetermined type of light source as said predetermined color chart data.

3. The image processing device according to claim 1, further comprising:

an image data output means for producing an output of said predetermined image data.

4. The image processing device according to claim 1, wherein said control means includes

a correction factor operation means for performing an operation

using said shooting color chart data and said predetermined color chart data,  
5 to output a correction factor which is a factor used for said correction, and  
an image data operation means for performing an operation for said  
original image data using said correction factor output from said correction  
factor operation means, to output said predetermined image data.

5. The image processing device according to claim 4, wherein said  
correction factor is obtained by dividing said predetermined color chart data  
by said shooting color chart data.

6. The image processing device according to claim 5, wherein said  
color chart presents a plurality of types of colors.

7. The image processing device according to claim 6, wherein  
said image data operation means includes a color separation means  
for separating said original image data into color component data indicating  
respective components corresponding to said plurality of types of colors, to  
5 output the separated data,

said correction factor operation means includes a color component  
correction factor operation means for performing an operation for each of a  
plurality of types of said color component data output from said color  
separation means, based on said shooting color chart data and said  
10 predetermined color chart data, to obtain and output said correction factor,  
and

said image data operation means performs an operation for each of  
the plurality of types of said color component data output from said color  
separation means, using corresponding said correction factor output from  
said color component correction factor operation means, and synthesizes a  
15 corresponding operation result with each of said plurality of types of color  
component data.

8. The image processing device according to claim 7, wherein said  
separation means separates said original image data into color component

data corresponding to red, green and blue, respectively.

9. The image processing device according to claim 1, wherein  
said subject is a target for a transaction process, and  
said image processing device is mounted to an information  
processing device presenting transaction information including said  
5 predetermined image data for said transaction process to a requesting  
source of the transaction information.

10. The image processing device according to claim 9, wherein  
said information processing device includes a transaction target  
specifying information receiving means for receiving transaction target  
specifying information for specifying said transaction target transmitted  
5 from said requesting source, and

said original image data is transaction target original image data  
obtained by shooting, as said subject, said transaction target specified by  
said transaction target specifying information received by said transaction  
target specifying information receiving means.

11. The image processing device according to claim 10, wherein  
said information processing device further includes an original  
image data storing means in which said original image data is stored for  
each of a plurality of types of said transaction targets, and

5 said transaction target original image data is read from said original  
image data storing means based on said transaction target specifying  
information received by said transaction target specifying information  
receiving means.

12. The image processing device according to claim 11, wherein  
said original image data storing means further stores said shooting color  
chart data corresponding to each of said original image data.

13. The image processing device according to claim 11, wherein

contents of said original image data storing means are externally supplied and stored.

14. The image processing device according to claim 9, further comprising:

5 a color chart data storing means storing, corresponding to each of one or more types of light sources, light source color chart data which is image data obtained by shooting said color chart using said light source;

10 said control means searching said color chart data storing means based on light source designating data that designates said predetermined type of light source to be provided, to read out said light source color chart data corresponding to said predetermined type of light source as said predetermined color chart data.

15. The image processing device according to claim 14, wherein said information processing device includes a light source designating data receiving means for receiving said light source designating data from said requesting source and providing the received data to said control means.

16. The image processing device according to claim 9, wherein said information processing device includes a predetermined image data transmission means for transmitting to present said predetermined image data to said requesting source.

17. The image processing device according to claim 9, wherein said information processing device further includes a transaction means for communicating with said requesting source and executing said transaction process for said transaction target.

18. An image processing method, comprising:

an original image data input step of inputting original image data obtained by shooting a subject; and

a controlling step of correcting said original image data inputted by

5 said original image data input step, using shooting color chart data which is  
image data obtained by shooting a color chart using a light source of a same  
type as a type of a light source used to shoot said subject, and predetermined  
color chart data which is image data obtained by shooting said color chart  
using a predetermined type of light source, such that said original image  
10 data is corrected to be predetermined image data obtained by shooting said  
subject using said predetermined type of light source.

19. A machine readable recording medium in which an image  
processing program for executing an image processing method in a computer  
is recorded,

said image processing method including  
5 an original image data input step of inputting original image data  
obtained by shooting a subject, and  
a controlling step of correcting said original image data inputted by  
said original image data input step, using shooting color chart data which is  
image data obtained by shooting a color chart using a light source of a same  
10 type as a type used to shoot said subject, and predetermined color chart data  
which is image data obtained by shooting said color chart using a  
predetermined type of light source, such that said original image data is  
corrected to be predetermined image data obtained by shooting said subject  
using said predetermined type of light source.

20. A program product to execute an image processing method in a  
computer,

said image processing method including  
an original image data input step of inputting original image data  
5 obtained by shooting a subject, and  
a controlling step of correcting said original image data inputted by  
said original image data input step, using shooting color chart data which is  
image data obtained by shooting a color chart using a light source of a same  
type as a type used to shoot said subject, and predetermined color chart data  
10 which is image data obtained by shooting said color chart using a

predetermined type of light source, such that said original image data is corrected to be predetermined image data obtained by shooting said subject using said predetermined type of light source.

21. An image processing device, comprising:

an original image data storing means for storing, for each of one or more subjects, original image data obtained by shooting the subject and shooting color chart data which is image data obtained by shooting a color chart using a light source of a same type as a type used at said shooting;

a color chart data storing means for storing, corresponding to each of one or more types of light sources, light source color chart data which is image data obtained by shooting said color chart using the light source;

a light source designating data input means for inputting light source designating data indicating a type of a desired light source;

an original image reading means for reading said original image data and said shooting color chart data corresponding to a desired subject from said original image data storing means;

a color chart reading means for reading said light source color chart data corresponding to said desired light source from said color chart data storing means, based on said light source designating data inputted from said light source designating data input means;

a control means for correcting said original image data read by said original image reading means, using said shooting color chart data read by said original image reading means and said light source color chart data read by said color chart reading means, such that said original image data is corrected to be predetermined image data obtained by shooting said desired subject using said desired light source; and

an output means for producing an output of said predetermined image data.

22. The image processing device according to claim 21, wherein said control means includes

a correction factor operation means for performing an operation

5 using said shooting color chart data read by said original image reading means and said light source color chart data read by said color chart reading means, to output a correction factor which is a factor for said correction, and  
an image data operation means for performing an operation for said original image data read by said original image reading means, using said correction factor output from said correction factor operation means, to  
10 output said predetermined image data.

23. The image processing device according to claim 22, wherein said correction factor is obtained by dividing said light source color chart data read by said color chart reading means by said shooting color chart data read by said original image reading means.

24. The image processing device according to claim 22, wherein said color chart presents a plurality of types of colors.

25. The image processing device according to claim 24, wherein said image data operation means includes a color separation means for separating said original image data read by said original image reading means into color component data indicating components corresponding to said plurality of types of colors respectively, to output the separated data,  
said correction factor operation means includes a color component correction factor operation means for performing an operation, for each of a plurality of types of said color component data output from said color separation means, based on said shooting color chart data read by said  
5 original image reading means and said light source color chart data read by said color chart reading means, to obtain and output said correction factor; and

10 said image data operation means performs an operation for each of the plurality of types of said color component data output from said color separation means, using corresponding said correction factor output from said color component correction factor operation means, and synthesizes a corresponding operation result with each of the plurality of types of said

color component data output from said color separation means.

26. The image processing device according to claim 25, wherein said color separation means separates said original image data into said color component data corresponding to red, green and blue, respectively.

27. The image processing device according to claim 26, wherein said subject is a target for a transaction process, and

said image processing device is mounted to an information processing device presenting transaction information including said predetermined image data for said transaction process to a requesting source of the transaction information.

28. The image processing device according to claim 27, wherein said information processing device includes a transaction target specifying information receiving means for receiving transaction target specifying information for specifying said transaction target transmitted from said requesting source, and

said original image data and said shooting color chart data of said transaction target is read from said original image data storing means based on said transaction target specifying information received by said transaction target specifying information receiving means.

29. The image processing device according to claim 27, wherein said information processing device includes a light source designating data receiving means for receiving said light source designating data from said requesting source.

30. The image processing device according to claim 27, wherein said information processing device includes a predetermined image data transmission means for transmitting to present said predetermined image data to said requesting source.



31. The image processing device according to claim 27, wherein said information processing device further includes a transaction means for communicating with said requesting source to execute said transaction process for said target for said transaction process.

32. The image processing device according to claim 21, wherein contents of said original image data storing means are externally supplied and stored.

33. An image processing method, comprising:

a light source designating data input step of inputting light source designating data indicating a type of a desired light source;

an original image reading step of reading, for each of one or more subjects, from an original image data storing portion prepared in advance for storing original image data obtained by shooting the subject and shooting color chart data which is image data obtained by shooting a color chart using a light source of a same type as a type of a light source used at said shooting, said original image data and said shooting color chart data corresponding to a desired subject;

a color chart reading step of reading, corresponding to each of one or more types of light sources, from a color chart data storing portion prepared in advance for storing light source color chart data which is image data obtained by shooting said color chart using the light source, said light source color chart data corresponding to said desired light source, based on said light source designating data inputted by said light source designating data input step;

a controlling step of correcting said original image data read by said original image reading step, using said shooting color chart data read by said original image reading step and said light source color chart data read by said color chart reading step, such that said original image data is corrected to be predetermined image data obtained by shooting said desired subject using said desired light source; and

an output step of producing an output of said predetermined image

25 data.

34. A machine-readable recording medium in which an image processing program for executing an image processing method in a computer is recorded,

said image processing method including

5 a light source designating data input step of inputting light source designating data indicating a type of a desired light source,

an original image reading step of reading, for each of one or more subjects, from an original image data storing portion prepared in advance for storing original image data obtained by shooting the subject and shooting color chart data which is image data obtained by shooting a color chart using a light source of a same type as a type of a light source used at said shooting, said original image data and said shooting color chart data corresponding to a desired subject;

10 a color chart reading step of reading, corresponding to each of one or more types of light sources, from a color chart data storing portion prepared in advance for storing light source color chart data which is image data obtained by shooting said color chart using the light source, said light source color chart data corresponding to said desired light source, based on said light source designating data inputted by said light source designating data input step;

15 a controlling step of correcting said original image data read by said original image reading step, using said shooting color chart data read by said original image reading step and said light source color chart data read by said color chart reading step, such that said original image data is corrected to be predetermined image data obtained by shooting said desired subject using said desired light source; and

20 an output step of producing an output of said predetermined image data.

35. A program product to execute an image processing method in a computer,

said image processing method including  
a light source designating data input step of inputting light source  
designating data indicating a type of a desired light source,  
an original image reading step of reading, for each of one or more  
subjects, from an original image data storing portion prepared in advance  
for storing original image data obtained by shooting the subject and shooting  
color chart data which is image data obtained by shooting a color chart using  
a light source of a same type as a type of a light source used at said shooting,  
said original image data and said shooting color chart data corresponding to  
a desired subject;  
a color chart reading step of reading, corresponding to each of one or  
more types of light sources, from a color chart data storing portion prepared  
in advance to store light source color chart data which is image data  
obtained by shooting said color chart using the light source, said light source  
color chart data corresponding to said desired light source, based on said  
light source type information inputted by said light source designating data  
input step;  
a controlling step of correcting said original image data read by said  
original image reading step, using said shooting color chart data read by  
said original image reading step and said light source color chart data read  
by said color chart reading step, such that said original image data is  
corrected to be predetermined image data obtained by shooting said desired  
subject using said desired light source; and  
an output step of producing an output of said predetermined image  
data.